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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/684,493	10/15/2003	Osamu Takagi	016887-1099	3503
22428	7590	07/13/2004	EXAMINER	
FOLEY AND LARDNER				LEUNG, PHILIP H
SUITE 500				
3000 K STREET NW				
WASHINGTON, DC 20007				
				ART UNIT
				PAPER NUMBER
				3742

DATE MAILED: 07/13/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/684,493	Applicant(s) TAKAGI ET AL.
Examiner	Art Unit	
Philip H Leung	3742	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 18 June 2004.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-3,7-16 and 23-27 is/are pending in the application.
4a) Of the above claim(s) 1-3 and 7-16 is/are withdrawn from consideration.
5) Claim(s) _____ is/are allowed.
6) Claim(s) 23-27 is/are rejected.
7) Claim(s) _____ is/are objected to.
8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on 15 October 2003 is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
5) Notice of Informal Patent Application (PTO-152)
6) Other: _____.

DETAILED ACTION

1. Applicant's election without traverse of species of Figures 14(a) and 14(b), claims 23-27 in the reply filed on 6-18-2004 is acknowledged.
2. Claims 1-3 and 7-16 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected species, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 6-18-2004.
3. The drawings filed on 10-15-2003 are acceptable.
4. The abstract should be rewritten to reflect the invention claimed in this divisional application.
5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

6. Claims 23-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Abe et al (US 6,049,691) or Ohtsuka (US 5,568,240), in view of Sprenger et al (US 5,529,703) or McGaffigan (US 5,412,184).

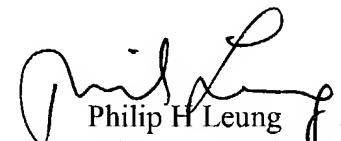
Abe shows "a fixing device using induction heating for causing alternating current to pass through an electromagnetic induction coil 18, which is arranged so as to be close to an endless member 10 having a metal layer of a conductive material, to cause said endless member to generate heat to heat a member to be fixed, the coil 18 having two outgoing lines of going and returning portion (see Figures 2 and 5). Ohtsuka also shows "a fixing device using induction heating for causing alternating current to pass through an electromagnetic induction coil 18, which is arranged so as to be close to an endless member 18 having a metal layer 19 of a conductive material, to cause said endless member to generate heat to heat a member to be fixed 17, the coil 21 having two outgoing lines of going and returning portion (see Figures 1, 2 and 5). Therefore, Abe or Ohtsuka shows every feature and structure as claimed except for the two outgoing lines of going and returning portion of the coil being attached to each other. Sprenger shows that it is well known in the art of induction heaters to use twisted pair wiring for the induction heating coils to reduce noise (see Figures 5, 8 and 23 and col. 20, lines 63-67) and McGaffigan also shows the use of insulated induction coils having twisted lead ends for induction heating devices to be well known (see Figures 1, 2, 12 and 13 and col. 3, lines 56-62). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Abe or Ohtsuka to attach the two ends of the insulated induction heating coil by twisting them together to reduce noises, in view of the teaching of Sprenger or McGaffigan.

7. The prior art made JP 6-123486) is further cited to show induction heating coils with twisted ends.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Philip H Leung whose telephone number is (703) 308-1710.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robin Evans can be reached on (703) 305-5766. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Philip H Leung
Primary Examiner
Art Unit 3742

P.Leung/pl
7-12-2004